

Title (en)

PROGRAMMABLY CONTROLLED ELECTRIC MOTOR PART WINDING METHODS AND APPARATUS

Publication

**EP 0526819 A3 19931013 (EN)**

Application

**EP 92112787 A 19920727**

Priority

- US 73819991 A 19910730
- US 74262991 A 19910808

Abstract (en)

[origin: EP0526819A2] Electric motor parts (i.e., armatures or stators) are wound by moving a wire dispensing member relative to the part so that the wire dispensing member itself guides the wire precisely into position on the part and so that no additional wire guides or shrouds are needed to guide the wire and keep it out of contact with portions of the part that it should not contact. The relative motion between the electric motor part and the wire dispensing member is preferably under programmable control so that the apparatus can be readily reprogrammed when different types of parts are to be wound. Specially shaped wire dispensing members may be employed when winding armatures. <IMAGE>

IPC 1-7

**H02K 15/09**; **H02K 15/095**

IPC 8 full level

**H02K 15/09** (2006.01); **H02K 15/095** (2006.01)

CPC (source: EP)

**H02K 15/09** (2013.01); **H02K 15/095** (2013.01)

Citation (search report)

- [Y] US 4834305 A 19890530 - RUBEN NIKOLAUS [CH], et al
- [Y] US 4671465 A 19870609 - LEMLEY THOMAS H [US], et al
- [Y] US 2339589 A 19440118 - STEARNS HARRY C
- [A] US 2394529 A 19460212 - CHARLES ARPURTH
- [A] EP 0429766 A2 19910605 - AXIS SPA [IT]
- [A] US 3924816 A 19751209 - SCHUBERT KLAUS, et al
- [A] GB 2054676 A 19810218 - LUCAS INDUSTRIES LTD
- [Y] US 3911563 A 19751014 - ANDERSON DALE L
- [X] EP 0318063 A1 19890531 - AXIS SPA [IT]
- [A] EP 0209624 A1 19870128 - BLACK & DECKER INC [US]

Cited by

DE102004062813A1; EP0982837A4; EP0880219A3; EP0878898A1; US6036135A; EP3226390A1; CN118017784A; WO2004105218A1; US8079133B2

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